

WAVELENGTH SELECTIVE GRATING ASSISTED OPTICAL COUPLERS

Publication number: JP11511568 (T)

Publication date: 1999-10-05

Inventor(s):

Applicant(s):

Classification:

- international: G02B6/293; G02B6/34; H04J14/02; G02B6/293; G02B6/34; H04J14/02; (IPC1-7): G02B6/293

- European: G02B6/34B10; G02B6/34B

Application number: JP19960510393T 19960826

Priority number(s): WO1996US13481 19960826; US19950002916P 19950829

Also published as:

WO9708574 (A1)

CA2229607 (A1)

EP0850430 (A1)

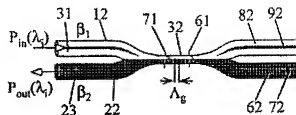
AU711424 (B2)

AU7152396 (A)

Abstract not available for JP 11511568 (T)

Abstract of corresponding document: **WO 9708574 (A1)**

A wavelength selective optical fiber coupler having various applications in the field of optical communications is disclosed. The coupler is composed of dissimilar waveguides (12, 22) in close proximity. A light induced, permanent index of refraction grating (42) is recorded in the coupler waist (52). The grating filters and transfers energy within a particular range of wavelengths from a first waveguide (12) to a second waveguide (22). Transversely asymmetric gratings provide an efficient means of energy transfer. The coupler can be used to combine or multiplex a plurality of lasers operating at slightly different wavelengths into a single fiber. Other embodiments such as a dispersion compensator and gain flattening filter are disclosed.



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